

**List of reference symbols**

100	Semiconductor laser chip
101	Substrate
102	Semiconductor laser element
103	Beam shaper
104	Lower cladding layer
105	Active layer
106	Thickness of lower cladding layer
107	Thickness of active layer
108	Thickness of upper cladding layer
109	Exit edge of beam shaper
110	Lower surface of beam shaper
111	Surface of substrate
112	Upper cladding layer
113	Upper surface of beam shaper
114	Region of aluminium oxide
115	Laser beam
116	Core of optical fibre
117	Optical fibre
200	Semiconductor laser chip
201	Substrate
202	Semiconductor laser element
203	Beam shaper
204	Trench
205	Width of trench
206	Laser beam
207	Shaped laser beam
208	Optical fibre
209	Optical fibre core
300	Material composition gradient
301	Profile of material composition gradient
302	First region
303	Second region
304	Third region